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\*Admitted only in Maryland  
\*Admitted only in Virginia  
\*Admitted only in Texas  
\*Practice limited to  
Federal Agencies

August 19, 2002

Commissioner for Patents  
Washington, D.C. 20231

Re: U.S. Utility Patent Appl. No. 10/005,647; Filed: December 7, 2001  
For: **Glucuronyl C5-Epimerase, DNA Encoding  
the Same and Uses Thereof**  
Inventors: Jalkanen *et al.*  
Our Ref: 1708.0280002/MAC/MBT

Sir:

Transmitted herewith for appropriate action are the following documents:

1. First Supplemental Information Disclosure Statement;
2. Form PTO-1449 (1 sheet citing 6 documents);
3. 6 documents attached cited in Form PTO-1449; and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

*Michele A. Cimbala*

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MAC/MBT/lam  
Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

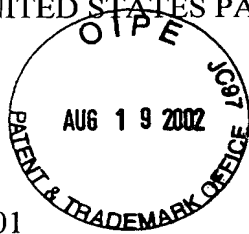
In re application of:

Jalkanen *et al.*

Appl. No. 10/005,647

Filed: December 7, 2001

For: **Glucuronyl C5-Epimerase Encoding  
the Same and Uses Thereof**



Confirmation No. 9088

Art Unit: 1645

Examiner: *To be assigned*

Atty. Docket: 1708.0280002

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**Information Disclosure Statement**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

The partial international search report for the corresponding PCT application is provided as document AT1.

WO 01/38507 A1 is in the Japanese language. This document was cited on the English language partial international search report that is attached as document AT1. It appears that the

subject matter is drawn to an *Arabidopsis* gene encoding a GDP-4-keto-6-deoxy-D-mannose-3,5-epimerase-4-reductase, deletion, substitution, addition, or insertion variants and a process for producing GDP-L-fucose.

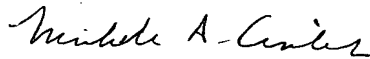
This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. It is believed that no fee is required. However, if it is determined that a fee is required, the U.S. Patent and Trademark Office is hereby authorized to charge the fee to our Deposit Account No. 19-0036.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

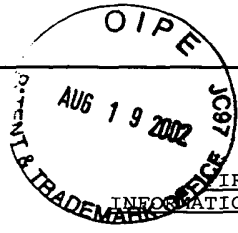
Respectfully submitted,

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|   |  |                               |
|---|--|-------------------------------|
|  FORM PTO-1449<br>FIRST SUPPLEMENTAL<br>INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO.<br>1708.0280002/MAC/MBT | APPLICATION NO.<br>10/005,647 |
|   | APPLICANT<br>Jalkanen et al.             |                               |
|   | FILING DATE<br>December 7, 2001          | GROUP<br>1648                 |

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## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |     | DOCUMENT<br>NUMBER | DATE      | NAME            | CLASS | SUB-<br>CLASS | FILING DATE |
|---------------------|-----|--------------------|-----------|-----------------|-------|---------------|-------------|
|                     | AA1 | 5,939,289          | 8/17/1999 | Ertesvåg et al. |       |               | 10/8/1993   |
|                     | AB1 | 6,372,477 B1       | 4/16/2002 | Jørsboe et al.  |       |               | 5/27/1998   |
|                     | AC1 |                    |           |                 |       |               |             |
|                     | AD1 |                    |           |                 |       |               |             |
|                     | AE1 |                    |           |                 |       |               |             |
|                     | AF1 |                    |           |                 |       |               |             |
|                     | AG1 |                    |           |                 |       |               |             |
|                     | AH1 |                    |           |                 |       |               |             |
|                     | AI1 |                    |           |                 |       |               |             |
|                     | AJ1 |                    |           |                 |       |               |             |
|                     | AK1 |                    |           |                 |       |               |             |

## FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL |     | DOCUMENT<br>NUMBER | DATE      | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |
|---------------------|-----|--------------------|-----------|---------|-------|---------------|-------------|
|                     | AL1 | WO 01/38507        | 5/31/2001 | Japan   |       |               | X Yes<br>No |
|                     | AM1 |                    |           |         |       |               | Yes<br>No   |
|                     | AN1 |                    |           |         |       |               | Yes<br>No   |
|                     | AO1 |                    |           |         |       |               | Yes<br>No   |
|                     | AP1 |                    |           |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |          |  |
|--|----|----------|--|
|  | AR | <u>1</u> | Crawford, B.E. et al., "Cloning, Golgi Localization, and Enzyme Activity of the Full-length Heparin/Heparan Sulfate-Glucuronic Acid C5-epimerase", <i>J. Biol. Chem.</i> 276:21538-21543, The American Society for Biochemistry and Molecular Biology, Inc. (June 2001). |
|  | AS | <u>1</u> | Li, J.P. et al., "Characterization of the D-Glucuronyl C5-epimerase Involved in the Biosynthesis of Heparin and Heparan Sulfate", <i>J. Biol. Chem.</i> 276:20069-20077, The American Society for Biochemistry and Molecular Biology, Inc. (June 2001).                  |
|  | AT | <u>1</u> | PCT Partial International Search Report for PCT/FI01/01068, filed December 7, 2001, Biotie Therapies Corp. (Search Report mailed August 1, 2002).  |

|          |                 |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.